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ABSTRACT

INDOLE-AMIDE DERIVATIVES AND THEIR USE AS GLYCOGEN PHOSPHORYLASE INHIBITORS

Heterocyclic amides of formula (1)

$$(R^4)_m + \begin{pmatrix} R^2 \\ N \\ N \\ N \end{pmatrix} = \begin{pmatrix} R^1 \\ N \\ N \\ N \end{pmatrix}$$

$$(1)$$

wherein:

is a single or double bond;

A is phenylene or heteroarylene;

m is 0, 1 or 2;

n is 0, 1 or 2;

R¹ is selected from for example halo, nitro, cyano, hydroxy, carboxy;

R² is hydrogen, hydroxy or carboxy;

 R^3 is selected from for example hydrogen, hydroxy, aryl, heterocyclyl and C_{1-4} alkyl(optionally substituted by 1 or 2 R^8 groups);

 R^4 is independently selected from for example hydrogen, halo, nitro, cyano, hydroxy, C_{1-4} alkyl, and C_{1-4} alkanoyl;

 R^8 is selected from for example hydroxy, -COCOOR⁹, -C(O)N(R^9)(R^{10}), -NHC(O)R⁹, (R^9)(R^{10})N- and -COOR⁹;

 R^9 and R^{10} are selected from for example hydrogen, hydroxy, C_{1-4} alkyl (optionally substituted by 1 or 2 R^{13});

R¹³ is selected from hydroxy, halo, trihalomethyl and C₁₋₄alkoxy; or a pharmaceutically acceptable salt or pro-drug thereof; possess glycogen phosphorylase inhibitory activity and accordingly have value in the treatment of disease states associated with increased glycogen phosphorylase activity. Processes

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for the manufacture of said heterocyclic amide derivatives and pharmaceutical compositions containing them are described.

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